## Contents

## VOLUME 145, NUMBER 1, MAY 1992

Tamaoki, J., Kanemura, T., Sakai, N., Isono, K., Chiyotani, A., Yamauchi, F., Takizawa, T. & Konno, K. Prostaglandin $D_2$ increases $Cl$ secretion across canine tracheal epithelium	
through cyclo-oxygenase stimulation and cAMP production	1
MATEJKA, G. L. & JENNISCHE, E. Local infusion of IGF-I into the kidney of pituitary intact rats induces renal growth	7
DIENER, M., NOBLES, M., SCHMITT, C. & RUMMEL, W. Characterization of the antisecretory action of prostaglandin D <sub>0</sub> in the rat colon	19
HJELMQVIST, H., ULLMAN, J., HAMBERGER, B. & RUNDGREN, M. Cardiovascular and renal effects of intracerebroventricular angiotensin II in conscious sheep	25
BERGGREN, A., SILLÉN, U. & RUBENSON, A. In vivo motor effects of loperamide on the rat	45
urinary bladder	33
AKSNES, G., KIRKBØEN, K. A., LANDE, K. & ILEBEKK, A. Myocardial potassium balance associated with regional ischaemia in the pig: effects of β-adrenoceptor blockade, duration	33
of ischaemia and preceding ischaemic periods	39
GUNDERSEN, K. & EKEN, T. The importance of frequency and amount of electrical stimulation	0,
for contractile properties of denervated rat muscles	49
Kreutz, M., Dellhammer, D., Murison, R., Vetter, H., Krause, U. & Lehnert, H. Pavlovian conditioning of corticotropin-releasing factor-induced increase of blood pressure	59
and corticosterone secretion in the rat	39
SOPPELA, P., NIEMEN, M. & SAARELA, S. Water intake and its thermal energy cost in reindeer fed lichen or various protein rations during winter	65
Rapid Communications	
BAILEY, S. P., DAVIS, J. M. & AHLBORN, E. N. Effect of increased brain serotonergic activity on endurance performance in the rat	75
Hu, PS., Jin, S. & Fredholm, B. B. Glycine and GABA potentiate 4-aminopyridine and/or N-methyl-D-aspartate induced [3H]noradrenaline release from rat hippocampal slices	77
Announcement	79
Instructions to Authors	81
VOLUME 145, NUMBER 2, JUNE 1992	
Crear G. Spille I. Wasie 7 M & Nicell A Advenocorticoid regulation of Na+ K+-	

, one man in, members a, jerse	
Celsi, G., Ståhl, J., Wang, ZM. & Nishi, A. Adrenocorticoid regulation of Na <sup>+</sup> ,K <sup>+</sup> -ATPase in adult rat kidney: effects on post-translational processing and mRNA abundance	8
FUKUDA, Y., EKLÖF, AC., MALMBORG, AS. & APERIA, A. Calcium supplementation and thyroid hormone protect against gentamicin-induced inhibition of proximal tubular	
Na+,K+-ATPase activity and other renal functional changes	9.
ELLINGSEN, Ø., AKSNĖS, G. & ILEBEKK, A. Calcium-induced net potassium uptake of pig hearts in vivo	9
BAUDET, S., NOIREAUD, J. & LEOTY, C. External calcium sensitivity of low sodium contractures in the control and hypertrophied right ventricle of the ferret	10

POHLOVÁ, I. & ZICHA, J. The influence of high salt intake and/or chronic blood volume expansion on renin-angiotensin system in Brattleboro rats	115
KOKKONEN, UM. Postural changes in atrial natriuretic peptide (ANP) and fluid balance in conscious goats	121
GERDLE, B. & FUGL-MEYER, A. R. Is the mean power frequency shift of the EMG a selective	129
indicator of fatigue of the fast twitch motor units?  AHLBORG, G., WEITZBERG, E., SOLLEVI, A. & LUNDBERG, J. M. Splanchnic and renal	129
Vasoconstrictor and metabolic responses to neuropeptide Y in resting and exercising man Ahotupa, M., Mäntylä, E., Peltola, V., Puntala, A. & Toivonen, H. Pro-oxidant effects	139
of normobaric hyperoxia in rat tissues	151
OKUDA, M., LEE, HC., KUMAR, C. & CHANCE, B. Comparison of the effect of a mitochondrial uncoupler, 2,4-dinitrophenol and adrenaline on oxygen radical production in the isolated perfused rat liver	159
CARLSSON, S., SKARPHEDINSSON, J. O., DELLE, M., HOFFMAN, P. & THORÉN, P. Differential	137
responses in post- and pre-ganglionic adrenal sympathetic nerve activity and renal sympathetic nerve activity after injection of 2-deoxy-D-glucose and insulin in rats	169
HJELMQVIST, H., ULLMAN, J., GUNNARSSON, U., HAMBERGER, B. & RUNDGREN, M. Increased resistance to haemorrhage induced by intracerebroventricular infusion to hypertonic NaCl	
in conscious sheep	177
Hu, GY. & Storm, J. F. 2-Amino-3-phosphonopropionate fails to block postsynaptic effects of metabolic glutamate receptors in rat hippocampal neurones	187
Rapid Communications	
SVENNERSTEN, K., NELSON, L. & UVNÄS-MOBERG, K. Atropinization decreases oxytocin	102
secretion in dairy cows  Persson, E. & Jansson, T. Low birth weight is associated with elevated adult blood pressure	193
in the chronically catheterized guinea-pig	195
APPELGREN, B. H., ARVER, S., HJELMQVIST, H., MOBERG, LE. & RUNDGREN, M. Calciuresis elicited by spontaneous rehydration in dehydrated sheep	197
NOTICE	199
VOLUME 145, NUMBER 3, JULY 1992	
MONCADA, S. The 1991 Ulf von Euler Lecture. The L-arginine: nitric oxide pathway SJÖQVIST, A., CASSUTO, J., JODAL, M. & LUNDGREN, O. Actions of serotonin antagonists on	201
cholera-toxin-induced intestinal fluid secretion  HEMLIN, M. & MELLANDER, A. Evidence for an electrically silent, neurogenic fluid secretion	229
in the rat jejunum in vivo	239
ANDERSSON, KE., HEDLUND, H. & STAHL, M. Contractions induced by angiotensin I,	252
angiotensin II and bradykinin in isolated smooth muscle from the human detrusor BOBERG, U., MORSING, P. & PERSSON, A. E. G. Renal response to volume depletion and	253
expansion in Milan hypertensive rats  Andersen, S. E., Engstrøm, T. & Bie, P. Effects on renal sodium and potassium excretion of	261
vasopressin and oxytocin in conscious dogs RIDEFELT, P., HELLMAN, P., RASTAD, J., LARSSON, R., ÅKERSTRÖM, G. & GYLFE, E. Fluoride	267
interactions with stimulus-secretion coupling of normal and pathological parathyroid cells	275

423

KJAELDGAARD, M., LAGERLÖF, F., JOHANSSON, I., GAFFNEY, P. J. & KJAELDGAARD, A. Increased release of tissue plasminogen activator and its inhibitor in human parotid saliva upon stimulation	287
Rapid Communications OMOTE, M., KAJIMOTO, N. & MIZUSAEA, H. Phenylephrine induces endothelium-independent	
rythmic contractions in rabbit mesenteric arteries treated with ryanodine WANG, Q., PAULSON, O. B. & LASSEN, N. A. Is autoregulation of cerebral blood flow in rats	295
influenced by nitro-L-arginine, a blocker of the synthesis of nitric oxide González, E., Salomonsson, M., Kornfeld, M., Gutierrez, A. M., Morsing, P. & Persson,	297
A. E. G. Different action of angiotensin II and noradrenaline on cytosolic calcium concentration in isolated and perfused afferent arterioles	299
VOLUME 145, NUMBER 4, AUGUST 1992	
AGNATI, L. F., ZOLI, M., BIAGINI, G. & FUXE, K. Neuronal plasticity and ageing processes in the frame of the 'Red Queen Theory'	301
VORNANEN, M. Force-frequency relationship, contraction duration and recirculating fraction of calcium in post-natally developing rat heart ventricles: correlation with heart rate	311
MORNER, S. E. J. N. & WOHLFART, B. Myocardial force interval relationships; influence of external sodium and calcium, muscle length, muscle diameter and stimulation frequency SCHWEILER, J. H., KAHAN, T., NUSSBERGER, J., JOHANSSON, MC. & HJEMDAHL, P. Influence of angiotensin II, α- and β-adrenoceptors on peripheral noradrenergic neurotransmission	323
in canine gracilis muscle in vivo	333
YAN, Z., SPENCER, M. K. & KATZ, A. Effect of low glycogen on glycogen synthase in human muscle during and after exercise	345
EVERTS, M. E. & CLAUSEN, T. Activation of the Na-K pump by intracellular Na in rat slow- and fast-twitch muscle	353
Fernandes, M. H. & Soares-Da-Silva, P. Type A and B monoamine oxidase activities in the human and rat kidney	363
NAESS, P. A., CHRISTENSEN, G., KIRKBOEN, K. A. & KIIL, F. Effect of atrial natriuretic factor on renal prostaglandin E2 release in the anaesthetized dog	369
ZERANI, M. & GOBBETTI, A. In vivo and in vitro studies on the effects of mGnRH on oestradiol-17 $\beta$ inter-renal production in the female frog, Rana esculenta, during the post-	277
reproductive period OLSSON, K., HOSAINI-HILALI, J. & ERIKSSON, L. Atrial natriuretic peptide attenuates pressor	377
but enhances natriuretic responses to angiotensin in pregnant conscious goats Shrijen, F., Saunier, C. & Henriquez, A. Pressure/flow relation in the peripheral pulmonary vascular bed in dogs: a preliminary study	385
Young, S. T., Wang, W. K., Chang, L. S. & Kuo, T. S. The filter properties of the arterial beds of organs in rats	401
TUUKANEN, J., PENG, Z. & VÄÄNÄNEN, H. K. The effect of training on the recovery form immobilization-induced bone loss in rats	407
Bergland, HP. & Mercer, J. B. The effect of rate of cooling, time of day and light regime on the shivering response in rabbits	413
ZUCCA G. BOTTA I. RAPRIEDI A. GRANA F. & VALLE P. Effects of cromakalim (BRI.	

34915) on resting and evoked activity in frog semicircular canals

## vi Contents

Rapid Communications

UVNÄS-MOBERG, K., ALSTER, P., HILLEGART, V. & AHLENIUS, S. Oxytocin reduces exploratory motor behaviour and shift the activity towards the centre of the arena in male rats

429

431

AUTHOR AND SUBJECT INDEX

